



KNIGHT[®] BOILER PRODUCT SUMMARY

(KB) 399,000 - 800,000 BTU/HR

	KB-399	KB-500	KB-600	KB-700	KB-800
WATER					
GALLON CAPACITY	3.4	4.2	4.2	5.0	5.7
HEATING SURFACE (SQ. FT.)	41.8	50.8	50.8	57.8	65.3
WATER CONNECTIONS	1-1/2"	1-1/2"	2"	2"	2"
DRAIN	3/4"	3/4"	3/4"	3/4"	3/4"
20°F ΔT WATER FLOW (GPM)	37	47	55	65	74
HEAD LOSS (FT. OF HD.)	21	23	31	30	33
35°F ΔT WATER FLOW (GPM)	21	26	32	37	42
HEAD LOSS (FT. OF HD.)	8	10	13	11	12
MAX. WORKING PRESSURE (PSI)	160	160	160	160	160
# OF RELIEF VALVES	1	1	1	1	1
RELIEF VALVE SIZE	3/4"	3/4"	3/4"	3/4"	3/4"
RELIEF VALVE RATING (MBH)	697	697	697	1,352	1,352
RELIEF VALVE PRESSURE RATING (PSI)	50	50	50	50	50
GAS					
INLET CONNECTION	1"	1"	1"	1"	1"
MAX. INLET PRESSURE, NAT	10.5" w.c.	10.5" w.c.	10.5" w.c.	10.5" w.c.	10.5" w.c.
MIN. INLET PRESSURE, NAT	4.0" w.c.	4.0" w.c.	4.0" w.c.	4.0" w.c.	4.0" w.c.
MAX. INLET PRESSURE, LP	13.0" w.c.	13.0" w.c.	13.0" w.c.	13.0" w.c.	13.0" w.c.
MIN. INLET PRESSURE, LP	8.0" w.c.	8.0" w.c.	8.0" w.c.	8.0" w.c.	8.0" w.c.
BTU/HR INPUT	399,000	500,000	600,000	700,000	800,000
BTU/HR OUTPUT (HIGH FIRE)	372,267	466,500	567,600	660,100	752,000
BTU/HR OUTPUT (LOW FIRE)	74,453	93,300	113,520	132,020	150,400
ELECTRICAL					
VOLTAGE/HEATER	120	120	120	120	120
VOLTAGE/CONTROL	24	24	24	24	24
TOTAL AMPS	1.5	1.7	2.7	2.7	2.7
# OF ELECTRICAL CONNECTIONS	1	1	1	1	1
DIMENSIONS					
HEIGHT	42-1/2"	42-1/2"	42-1/2"	42-1/2"	42-1/2"
WIDTH	15-1/2"	15-1/2"	15-1/2"	15-1/2"	15-1/2"
DEPTH	27"	31-1/4"	36-1/4"	40-1/4"	45-1/4"
SERVICE CLEARANCES					
FRONT	24"	24"	24"	24"	24"
BACK	14"	14"	14"	14"	14"
RIGHT SIDE	0"	0"	0"	0"	0"
LEFT SIDE (PIPING)	24"	24"	24"	24"	24"
TOP	24"	24"	24"	24"	24"
DIRECT VENTING					
SIZE	4"	4"	4"	6"	6"
VENT CATEGORY	IV	IV	IV	IV	IV
VENT MATERIAL	PVC	PVC	PVC	PVC	PVC